

C1
stromal cells, wherein said immunologically isolated marrow stromal cells are implanted into the body of a recipient organism and further wherein said immunologically isolated marrow stromal cells are separated from the immune system of said recipient organism.

C2
38. (Twice amended) The immunologically isolated marrow stromal cells of claim 37, wherein said immunologically isolated marrow stromal cells are microencapsulated.

56. (Twice amended) The immunologically isolated marrow stromal cells of claim 37, wherein said beneficial protein is selected from the group consisting of a type II procollagen, a type II collagen, a cystic fibrosis protein, a human growth hormone, an Obesity protein, and a human Factor VIII.

C3
57. (Twice amended) The immunologically isolated marrow stromal cells of claim 37, wherein said gene construct is transfected into said immunologically isolated marrow stromal cells using a method selected from the group consisting of calcium phosphate precipitation transfection, DEAE dextran transfection, electroporation, microinjection, liposome-mediated transfer, chemical-mediated transfer, ligand-mediated transfer, and recombinant viral vector transfer.

58. (Twice Amended) The immunologically isolated marrow stromal cells of claim 37, wherein said immunologically isolated marrow stromal cells are syngeneically matched with said recipient organism [donor stromal cells].

C4
65. (Twice amended) The immunologically isolated marrow stromal cells of claim 37, wherein said immunologically isolated marrow stromal cells are cultured for at least about one hour.

66. (Twice amended) The immunologically isolated marrow stromal cells of claim 37, wherein said immunologically isolated marrow stromal cells are cultured for about three to about thirty days.

67. (Twice amended) The immunologically isolated marrow stromal cells of claim 37, wherein said immunologically isolated marrow stromal cells are cultured for about five to about fourteen days.